

**Amendments to and listing of the Claims:**

1. Claims 5-7 are amended as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A process for producing 2-bromocyclopentanone, which comprises reacting cyclopentanone with bromine in a biphasic mixture of (i) water and (ii) an organic solvent or mixtures thereof.

2. (Original) A process according to claim 1, wherein the organic solvent is a water immiscible organic solvent having no carbonyl group.

3. (Original) A process according to claim 1, wherein the organic solvent is halogenated hydrocarbon, hydrocarbon or mixtures of halogenated hydrocarbon and hydrocarbon.

4. (Original) A process according to claim 1, wherein the organic solvent is halogenated hydrocarbon.

5. (Currently Amended) A process according to claim 3 ~~or 4~~, wherein the halogenated hydrocarbon is 1-chlorobutane.

6. (Currently Amended) A process according to ~~any one of the claims 1 to 5~~, wherein the molar ratio of cyclopentanone to bromine is 10:1 to 1:1.

7. (Currently Amended) A process according to ~~any one of the claims 1 to 5~~, wherein the molar ratio of cyclopentanone to bromine is 5:1 to 2:1.

8. (Original) A process according to claim 1, which further comprises the step of reacting 2-bromocyclopentanone with a base to produce 2-cyclopentene-1-one.